

S5 Text. Transition probabilities for the ABM.

Table S1. Transition Probabilities used in the ABM

Model	Transition Probability	Notes
Pure Zoonotic Spillover (Simple Poisson model)	Λ_{RT}/N_H	the rate of change in the limiting Poisson process is therefore the constant $\lambda(t_j) = \Lambda_{RT}$
Zoonotic Spillover with depletion of susceptibles (Self-Correcting Poisson)	Λ_{RT}/S_H	the rate of change in the limiting Poisson process is therefore the constant $\tilde{\lambda}(t_j) = \Lambda_{RT}$
Human-to-human transmission (Self-Exciting Poisson)	Λ_{HT}/S_H	the rate of change in the limiting Poisson process is therefore the time-dependent $\hat{\lambda}(t_j) = \Lambda_{HT}$
Zoonotic Spillover with human-to-human transmission (Poisson with Feedback)	Λ_{RT}/S_H and Λ_{HT}/S_H	the rate of change in the limiting Poisson process is therefore the time-dependent $\hat{\lambda}(t_j) = (\Lambda_{RT} + \Lambda_{HT})\tau$